



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2A5F BYPASS RATIO: 5.1
 UNIQUE ID NUMBER: 3GE056 PRESSURE RATIO (π_{co}): 32.9
 COMBUSTOR: 1862M39
 ENGINE TYPE: TF RATED THRUST (F_{oo}) (kN): 271.9

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F _{oo} (g/kN) or SN	2.1	25.8	51.8	8.7
AS % OF ORIGINAL LIMIT	10.7	21.9	49.0	48.3
AS % OF CAEP/2 LIMIT (NO _x)			61.2	
AS % OF CAEP/4 LIMIT (NO _x)			71.2	
AS % OF CAEP/6 LIMIT (NO _x)			80.0	
AS % OF CAEP/8 LIMIT (NO _x)			92.7	

DATA STATUS

- PRE-REGULATION
 x CERTIFICATION
 - REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
 - DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F _{oo})	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	2.630	0.05	0.05	28.11	7.4
CLIMB OUT	85	2.2	2.106	0.04	0.04	21.27	5.2
APPROACH	30	4.0	0.691	0.11	1.92	12.64	0.0
IDLE	7	26.0	0.220	1.18	16.96	4.90	0.0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			897	440	6156	12796	-
NUMBER OF ENGINES				2	2	2	2
NUMBER OF TESTS				4	4	4	4
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)				1.6	22.7	47.1	7.4
SIGMA (D _p /F _{oo} in g/kN, or SN)							
RANGE (D _p /F _{oo} in g/kN, or SN)							

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.6-98.2
TEMPERATURE (K)	279-293
ABS HUMIDITY (kg/kg)	0.0046-0.0074

FUEL

SPEC	Jet A
H/C	1.94
AROM (%)	15.3

MANUFACTURER: General Electric Company
 TEST ORGANIZATION: CF6 Eval Engineering
 TEST LOCATION: Site IIIB, PTO, Peebles, Ohio
 TEST DATES: 13/01/1995-17/01/1995

REMARKS

1. GE Report TM95-17.
2. Engine S/N 704/223 & 704/234
3. 1862M39 combustor

Compliance with Fuel Venting requirements: - ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)